

Georgetown Fire Department



Fire Based EMS

- Since 1807 the Georgetown Fire Department's mission is to serve and protect the citizens of Georgetown.
- This includes fire suppression, fire prevention, rescue which includes extrication, high angle and low angle, trench and confined spaces, swift water, hazardous materials mitigation and first responder EMS.

Fire Based EMS

- The goal for this plan is to determine if the Georgetown Fire Department can provide EMS service.

Fire Based EMS

- We have 4 objectives to determine this.
- A) Evaluate the benefits to the city of having firefighters and EMS personnel cross trained.
- B) Compare how EMS is currently done in other jurisdictions.

Fire Based EMS

- C) Determine what would be the cost if Georgetown Fire Department did EMS transports.
- D) Evaluate the cost versus what the city currently pay now for EMS

Fire Based EMS

Benefits of Service

All new employees will be cross trained as firefighters.

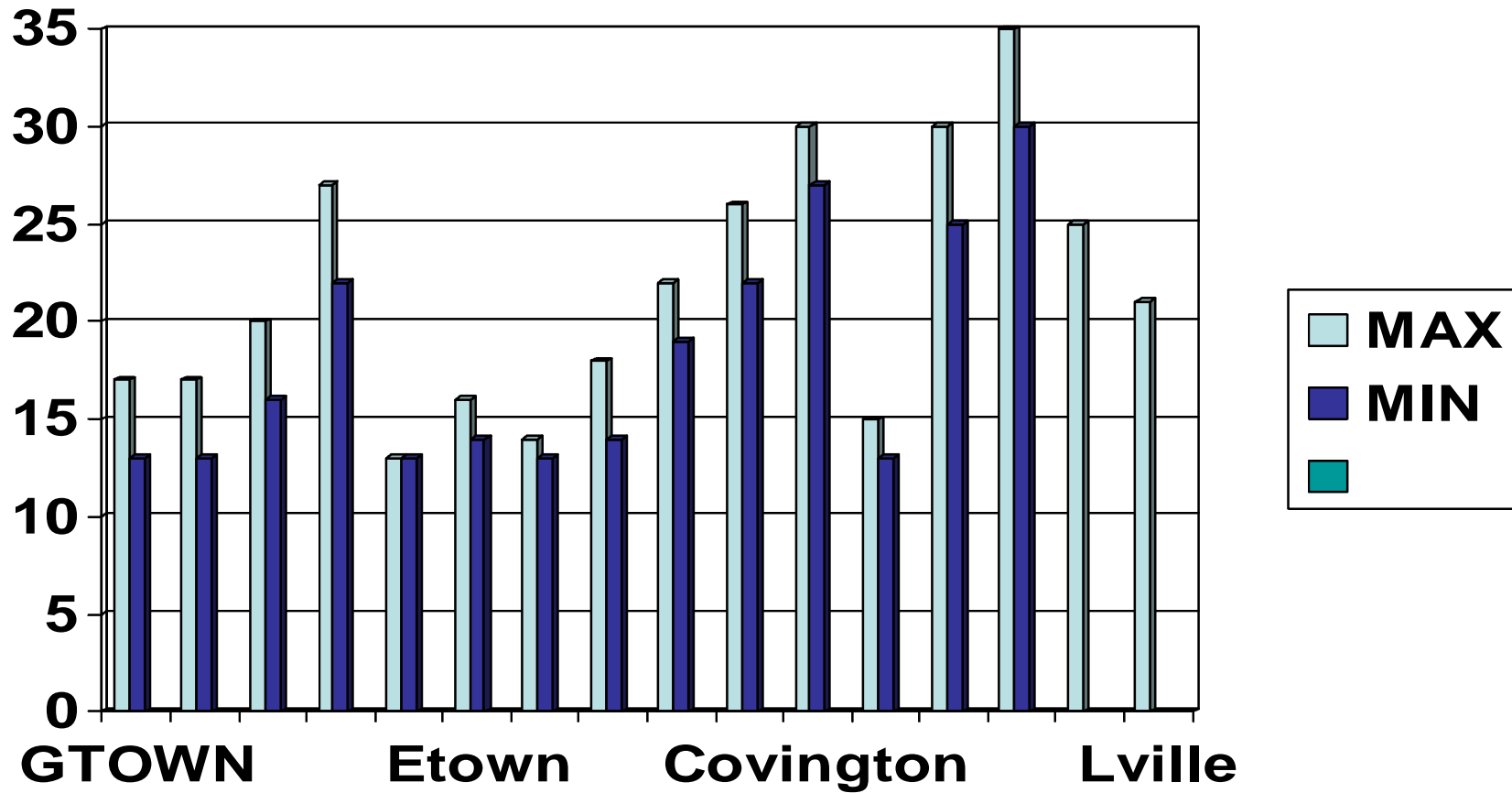
They will also be trained as Hazardous Materials Technicians and Rescue Technicians

Minimum staffing will go from 13 per day to 17 per day

Fire Based EMS

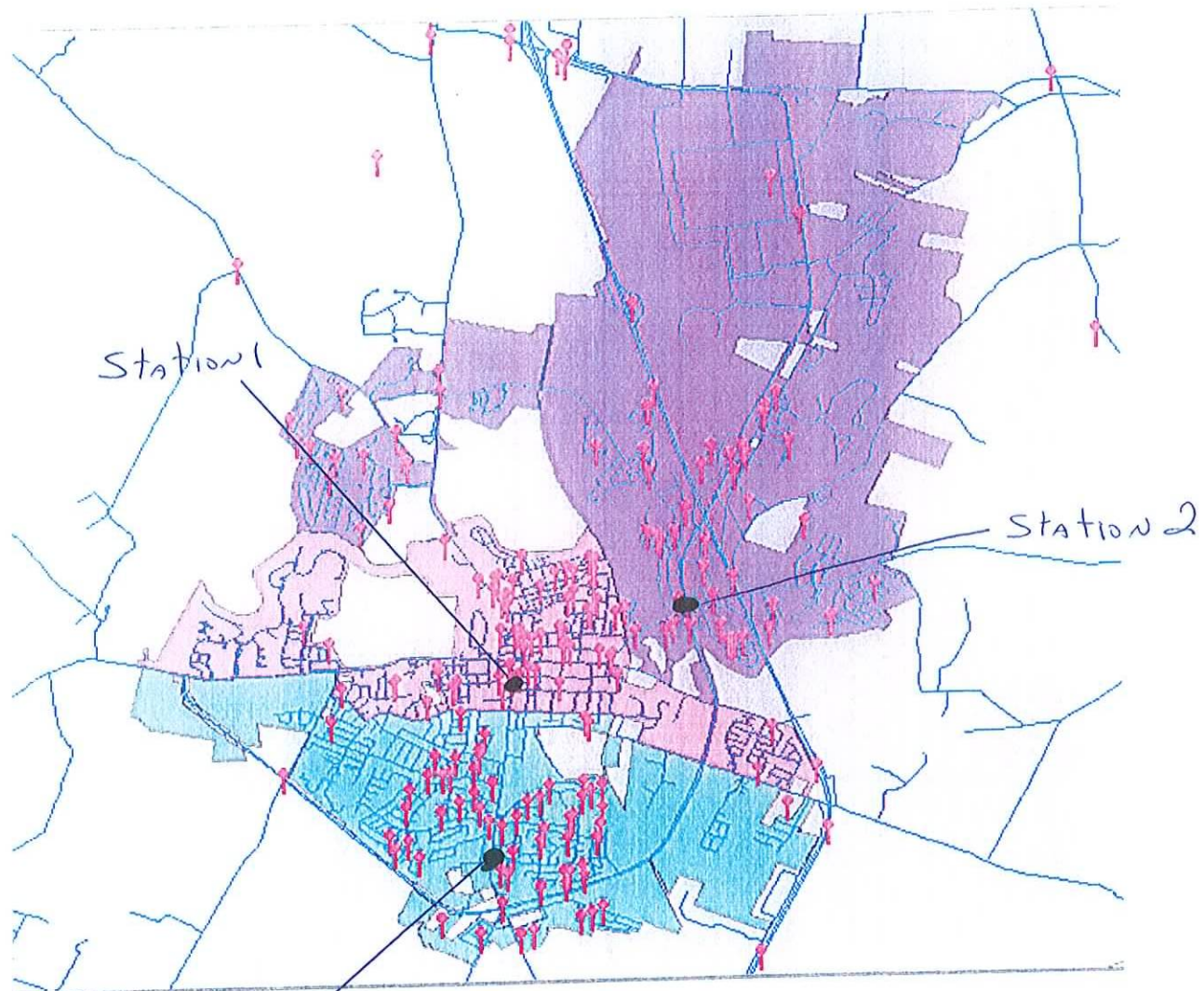
- NFPA 1710 requires 15 personnel on the initial full alarm assignment.

Fire Based EMS



Fire Based EMS

- Every station in the city will have staffed firefighter/paramedics along with firefighter/EMT's
- Because of location faster response.



Station 3



Fire Based EMS

2011 National EMS Assessment

7. EMS Agency Numbers by Organizational Type

Data Source: NASEMSO 2011 EMS Industry Snapshot

EMS Agencies are frequently described based upon the organizational structure from which they operate. EMS Agencies within governmental organizations are labeled as Fire, Non-Fire, or Tribal. Business organizational structures can be non-profit or for-profit based. Examples of EMS Agencies emanating from a business organization are grouped as either Hospital Based or Non-Hospital Based. Emergency Medical Dispatch (EMD) is not a formal EMS Transport Agency but is credentialed based on the online medical care they provide.

The following tables describe the number of EMS agency organizational types licensed in each state. Over 60% of the EMS Agencies operate from a governmental structure. Total numbers will differ from the overall national EMS Agency total as CA, IL, VA, and WA data was unavailable.

EMS Agency Numbers by Organizational Type						
EMS Agency Organizational Type	States With Org. Type	Mean	Median	Min	Max	Sum
Fire Department Based	46	138.9	61.5	1	581	6,388 (40%)
Governmental, Non-Fire Based	44	74.0	30	1	800	3,255 (21%)
Hospital Based	43	21.0	14	1	100	901 (6%)
Private Non-Hospital Based	45	86.9	40	1	823	3,910 (25%)
Tribal	19	4.4	3	1	25	84 (1%)
Emergency Medical Dispatch	11	33.9	27	1	81	339 (2%)
Other EMS Agency	7	139.7	63	1	683	978 (6%)
Grand Total						15,865

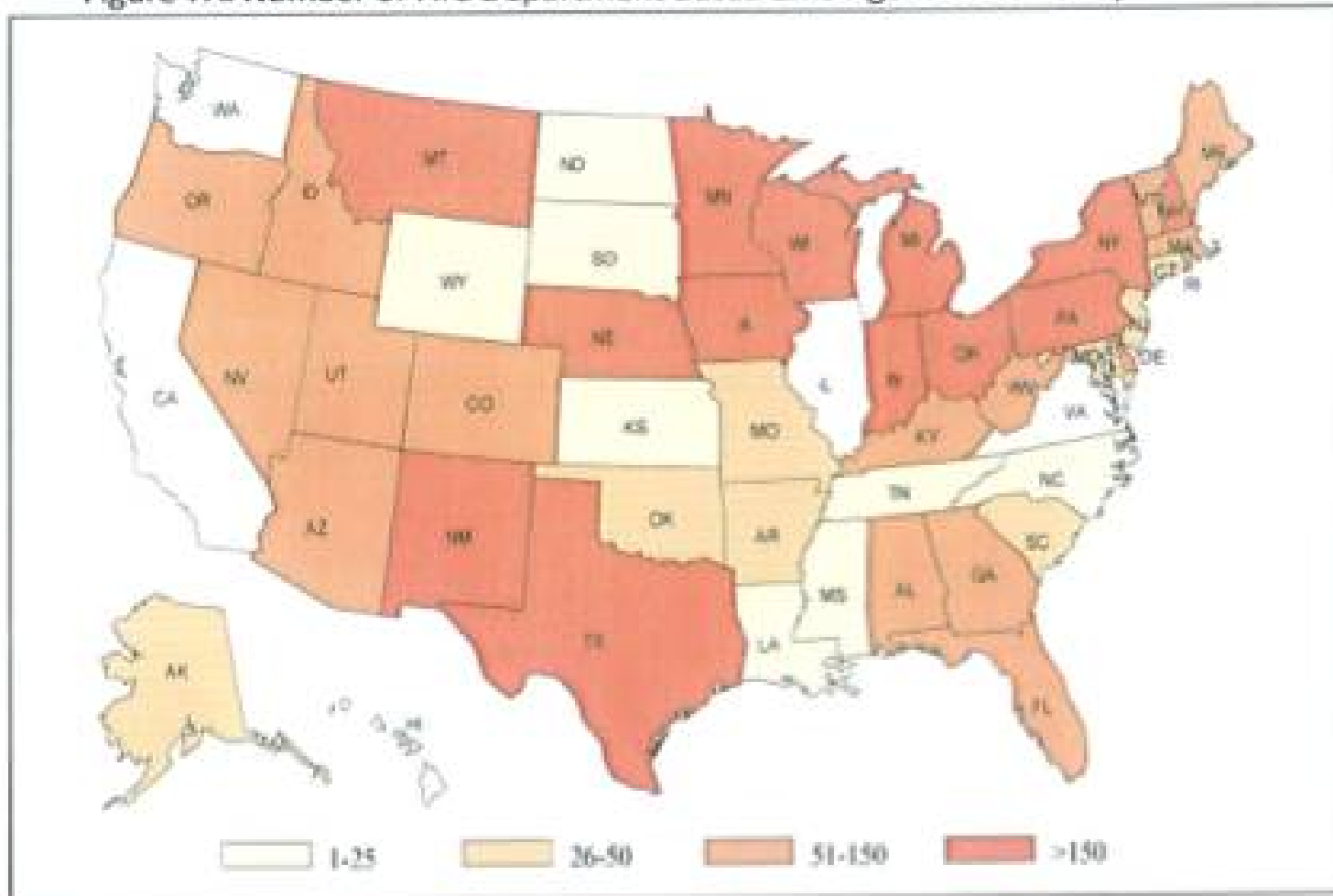
***CA, IL, VA, and WA data unavailable*

Data obtained from the NASEMSO 2011 EMS Industry Snapshot was collected using a survey distributed to the Director of each state's regulatory EMS office. It should be noted that the aggregate results of any survey question is based on a combination of fact and opinion. This is dependent on each state's available data sources and operational awareness relative to each specific question. The NASEMSO Snapshot question used for this analysis was the following: "For each of the listed EMS Agency organizational types, how many EMS Agencies are currently licensed in your state?"

Fire Based EMS

2011 National EMS Assessment

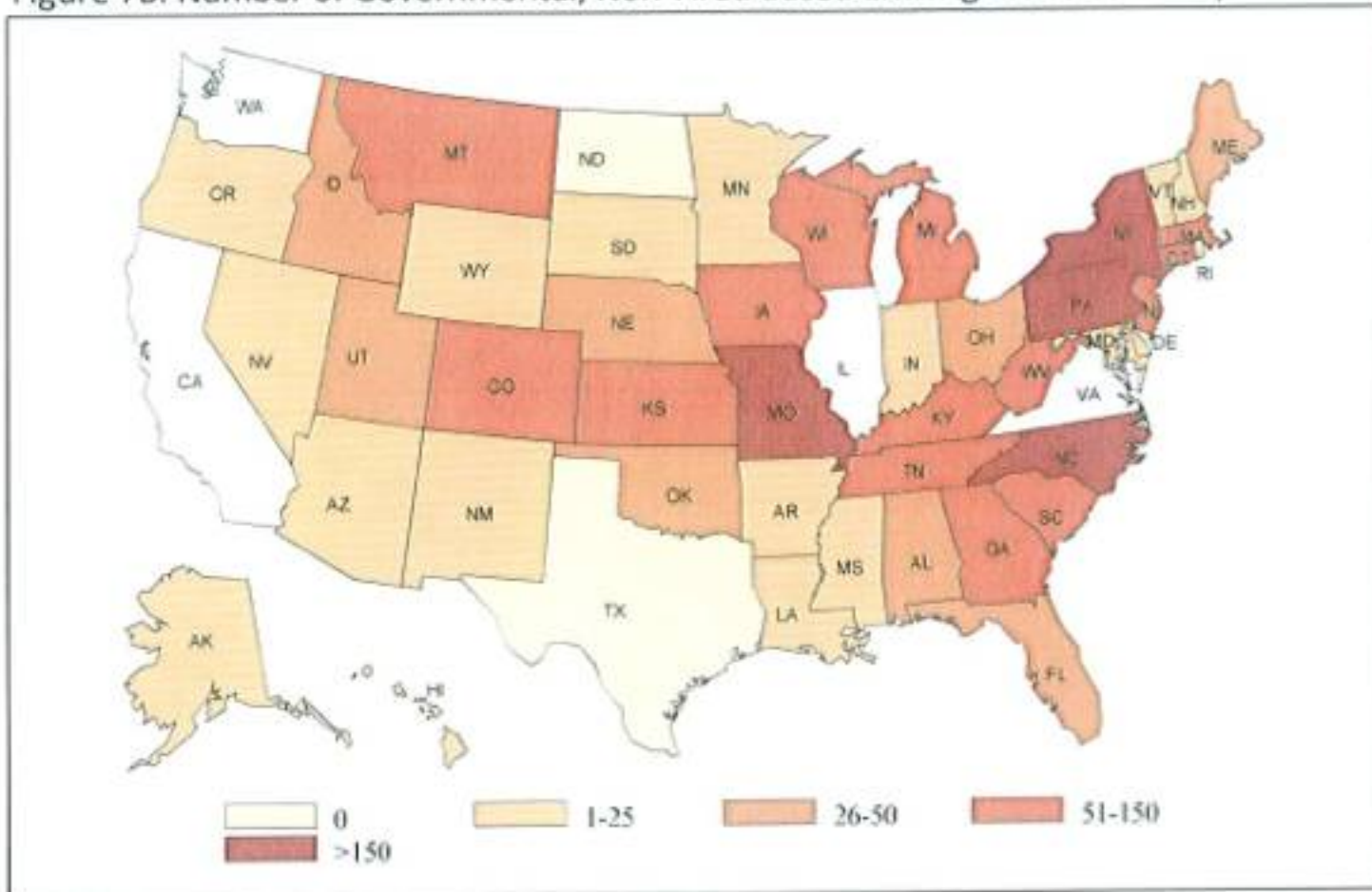
Figure 7A. Number of Fire Department Based EMS Agencies Currently Licensed.



Fire Based EMS

2011 National EMS Assessment

Figure 7B. Number of Governmental, Non-Fired Based EMS Agencies Currently Licensed.



Fire Based EMS

Top 10 Cities

Fire Based EMS

Lexington

Covington

Hopkinsville

Florence

Fire Based EMS

- Top 10 cities (cont.)
- Third Service (County Funded)
 - Louisville
 - Owensboro
 - Richmond (EMS Tax)

Fire Based EMS

- Top 10 cities (cont.)
- Hospital Based
 - Bowling Green
 - Henderson
- Joint (County & City Funded)
 - Georgetown

Fire Based EMS

- Top 20 cities
- 7 Fire Based EMS
- 7 County Funded Third Service
- 2 Hospital Based
- 2 Private
- 1 City and County Funded Third Service
- 1 City & County Fire Based

Fire Based EMS

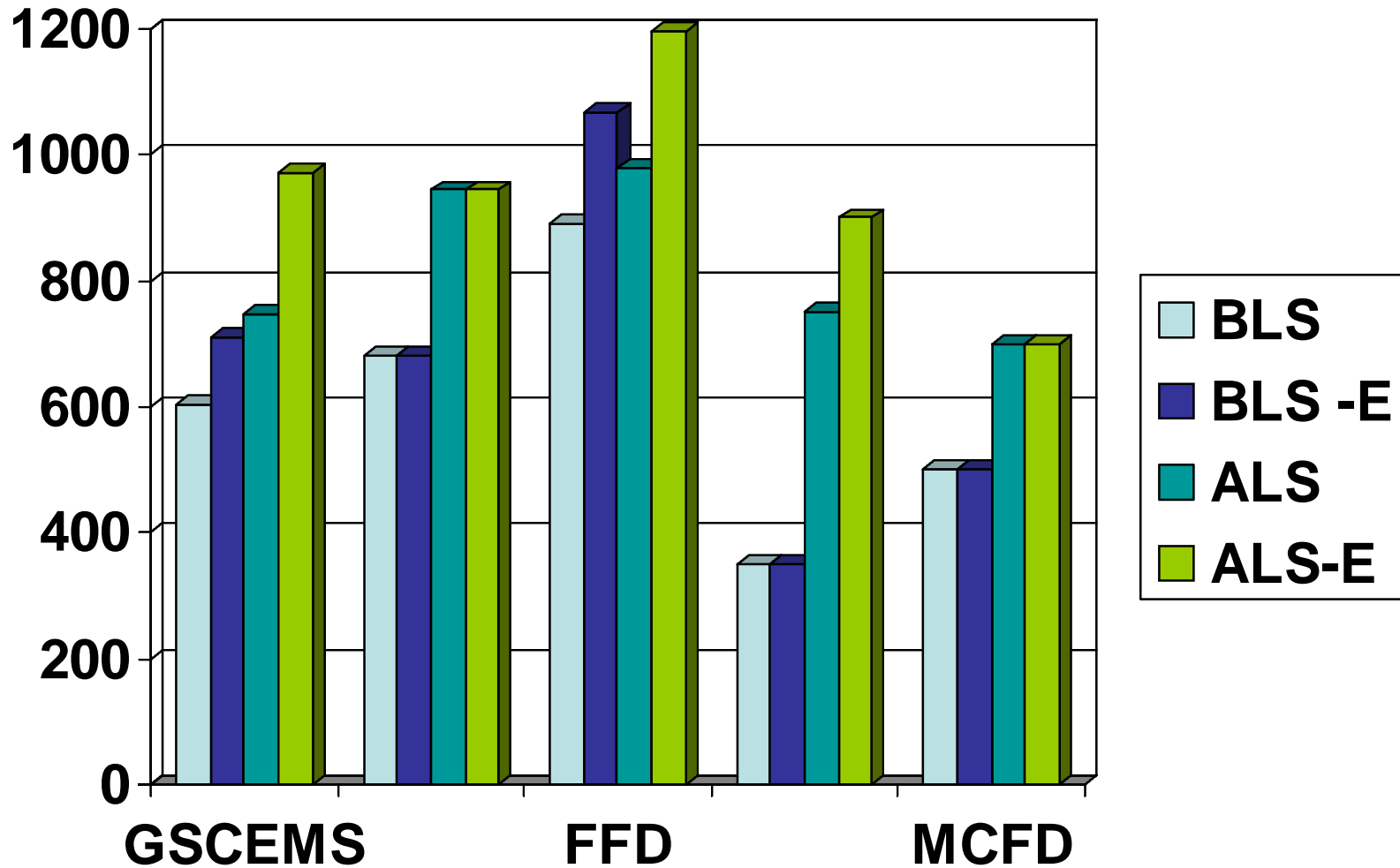
- National average for run rates.
- BLS non Emergency -\$603.14
- BLS Emergency - \$654.58
- ALS Non Emergency - \$794.77
- ALS Emergency - \$821.34

JEMS 2010 200 City Survey

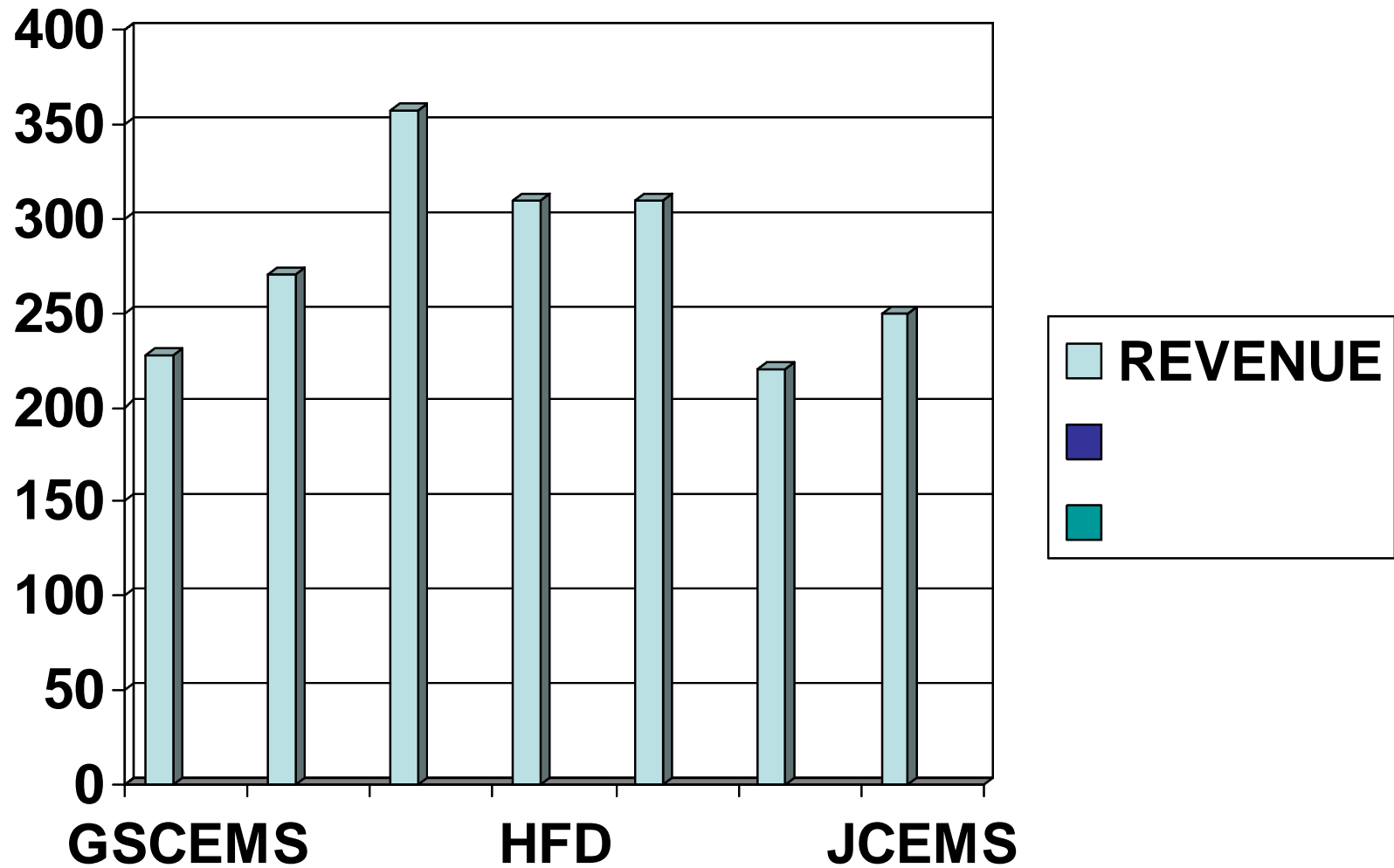
Fire Based EMS

- Proposed Rates
- Mileage - \$13.00
- Base Rate BLS - \$604.00
- Base Rate BLS –E response -\$711.00
- Base Rate ALS 1 - \$746.00
- Base Rate ALS-E response \$ 971.00
- Base Rate ALS 2 \$ 982.00

Fire Based EMS



Fire Based EMS



Fire Based EMS

How do we determine the cost to the city for the Fire Department to do transports.

First we look at how it is currently done.

The city and county split the cost and the revenue currently at a 50/50 split.

Fire Based EMS

- F/Y 2011 the actual expenditures for EMS was \$2,957,114.00
- F/Y 2011 GSCEMS collected revenue of \$ 1,330,008.00
- Total cost for EMS \$1,627,106.00
- Total cost to city and county \$ 813,553.00

Fire Based EMS

2004 - \$930,932 - \$375,514 = \$555,418

2005 - \$1,390,357 - \$ 391,656 = \$998,701

2006 - \$ 1,336,727 - \$ 453,816 = \$882,911

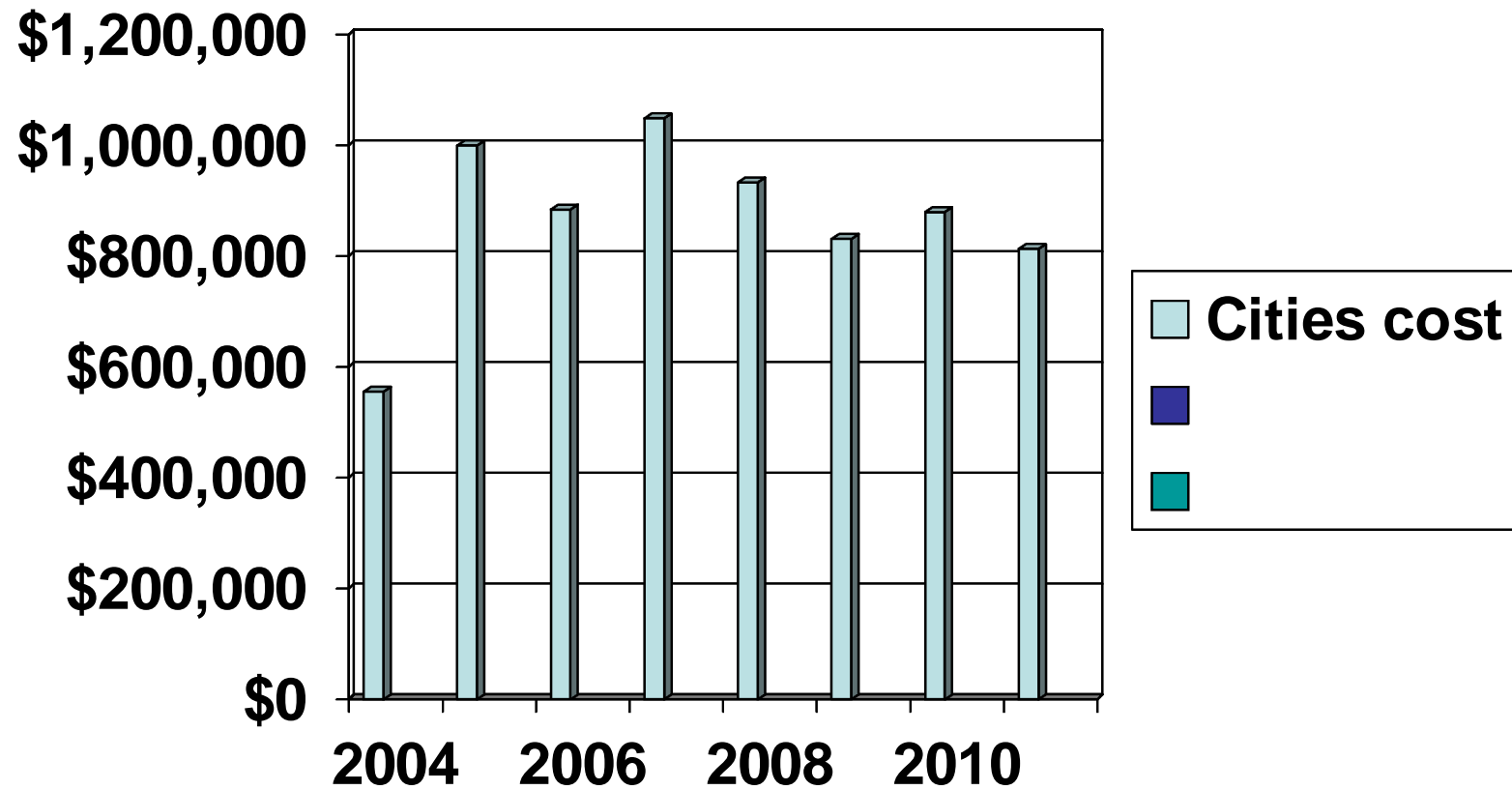
2007 - \$ 1,539,538 - \$ 491,303 =\$1,048,235

2008 - \$ 1,511,860 - \$ 581,089 =\$ 930,771

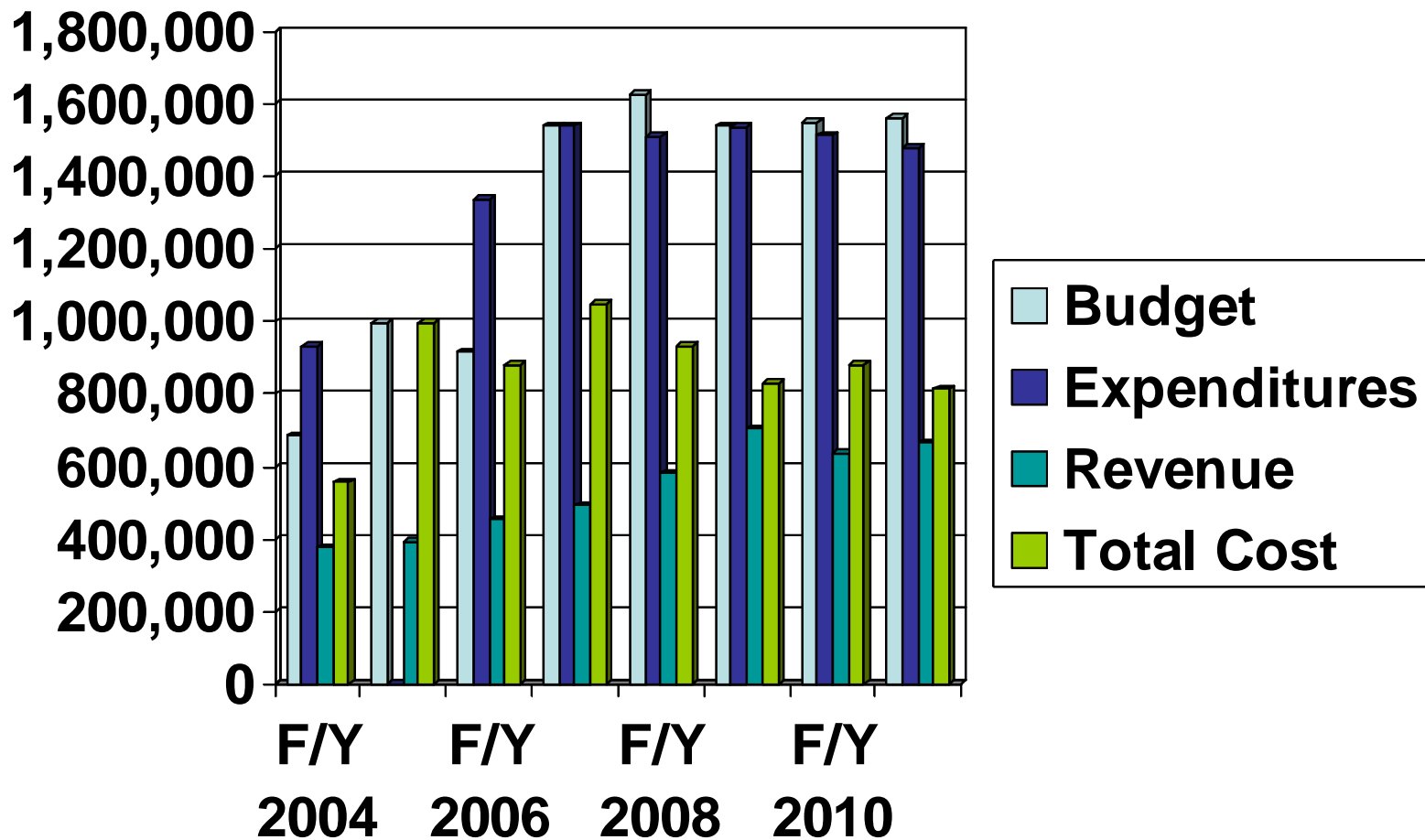
2009 - \$ 1,535,124 - \$ 703,742 = \$831,382

2010 - \$ 1,514,830 - \$ 634,836 = \$879,994

Fire Based EMS



Fire Based EMS



Fire Based EMS

- Hire 14 Personnel
- Hire 12 Paramedics (assigned to 24/48 shifts)
- Hire 1 Asst. Chief of EMS (40 Hr/wk)
- Hire 1 Administrative Assistant (40 Hr/wk)
- Determine Budget for EMS

Fire Based EMS

- Hire 12 paramedics
 - 4 assigned to each shift
- 1 paramedic would be assigned to
 - Station 1 (141 South Broadway)
 - Station 2 (200 Morgan Mill)
- 2 Paramedics Assigned to
 - Station 3 (101 Airport Road)

Fire Based EMS

- Hire 1 Asst Chief of EMS
 - Have to be a Paramedic
- Duties would include
 - Q/C runs - Have to check 10 percent
 - Most EMS dept. check 10% of their BLS, ALS and all their critical care
 - Oversee all EMS training for department
 - Paramedics need 72 CEU every 2 years

Fire Based EMS

- 1 Administrative Assistant
 - Need someone at Station 3 during business hours.
 - Billing and Insurance questions
 - Also do other FD related job duties.
 - Currently do not have this

Fire Based EMS

- Cost of 12 Paramedics
 - Total Wages - \$40,207.59
 - Based on Grade 7 Employee
 - Benefits - \$ 35,048.79
- Total - \$75,256.91 per employee
- $\$75,256.91 \times 12 = \$903,082.92$

Fire Based EMS

- This includes retirement and insurance
- Full family insurance cost the city
 - \$ 14,893.08
- Only 39 percent of city employees take family insurance.

Fire Based EMS

- A/C Chief of EMS
 - Salary - \$ 54,000
 - Benefits - \$46,000
- Total Cost \$100,000
 - Fully family Insurance

Fire Based EMS

- Administrative Assistant
 - Total Salary - \$30,900
 - Benefits – 19,100
 - Total - \$ 50,000
 - Full Family Insurance

Fire Based EMS

- Total cost for Employees
- \$1,053,082.00

Fire Based EMS

Materials & Service Budget

Medical Supplies	\$100,000.00
Professional Service	\$85,000.00
Fuel	\$55,000.00
Vehicle Maint.	\$50,000.00
Uniforms	\$10,000.00
Physicals	\$7,000.00
Cleaning Supplies	\$2,500.00

Fire Based EMS

Materials and Service (cont.)

Training & Education	\$15,000.00
Maint. Other Equip.	\$15,000.00
Office Supplies	\$7,500.00
Travel	\$1,500.00
Telephones	\$3,600.00
Utilities	\$3,000.00
Office Equipment	\$3,000.00

Fire Based EMS

- Materials and Service Total
- \$358,100.00

	Benefits	\$ 1,099,000.00
01-5140-315	Contracts with Private Agencies (Billing & Heart Monitors)	\$ 85,000.00
01-5140-330	Linens & Laundry	\$ 1,000.00
01-5140-343	Medical Services (Physicals)	\$ 13,000.00
01-5140-411	Custodial Supplies	\$ 10,000.00
01-5140-429	Gasoline & Diesel	\$ 60,000.00
01-5140-445	Office Supplies	\$ 14,000.00
01-5140-481	Uniforms	\$ 23,000.00
01-5140-548	Special Projects (Supplemented With Grant Money)	\$ 11,000.00
01-5140-550	Medical Supplies & Equipment	\$ 100,000.00
01-5140-567	Patient Refunds	\$ 5,000.00
01-5140-569	Education & Training	\$ 30,000.00
01-5140-573	Telephones	\$ 5,000.00
01-5140-576	Travel	\$ 1,500.00
01-5140-578	Utilities	\$ 8,000.00
01-5140-585	Equipment Maintenance	\$ 30,000.00
01-5140-592	Vehicle Maintenance	\$ 58,000.00
01-5140-723	* Motor Vehicle	\$ 150,000.00
01-5140-725	Office Equipment	\$ 5,000.00
01-5140-739	Other Equipment	\$ 3,000.00
SUBTOTAL		\$ 3,191,500.00

Fire Based EMS

- EMS Materials & Service line item
- Total- \$457,500.00
- FD - \$358,100.00
- \$99,400.00 Less

WHY

Fire Based EMS

- \$ 6,000.00 less for Physicals
- \$ 5,000.00 less for Fuel
- \$ 8,500.00 less for cleaning supplies
- \$11,000.00 less for special projects
- \$13,000.00 less for uniforms
- \$15,000.00 less for Training
- \$5,000.00 less for utilities

Fire Based EMS

- \$1,400.00 less for telephones
- \$8,000.00 less for vehicle maint.
- \$15,000.00 less for equip. maint.
- \$2,000.00 less for office equipment
- \$3,000.00 less for other equipment
- \$6,500.00 less for Office supplies

Fire Based EMS

- Total cost
- Personnel Cost + M&S Cost
- \$1,053,082.00 + \$358,100 =
- \$1,411,182

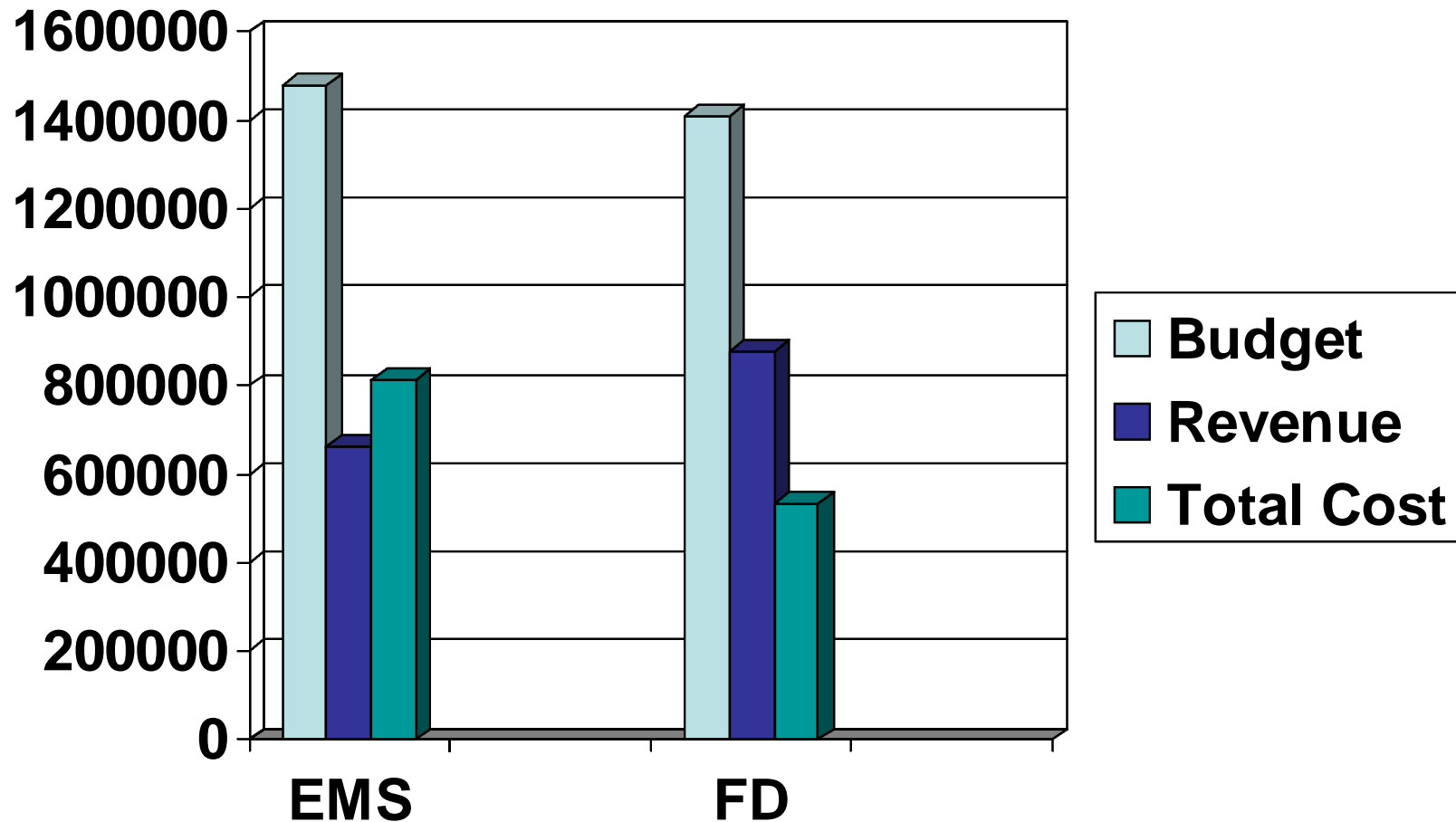
Fire Based EMS

- Have Determined the cost \$1,411,182.00
- Look at Revenue
- Number of Runs
- Revenue per run
- 5511 total runs
- \$227.23 average per billable run

Fire Based EMS

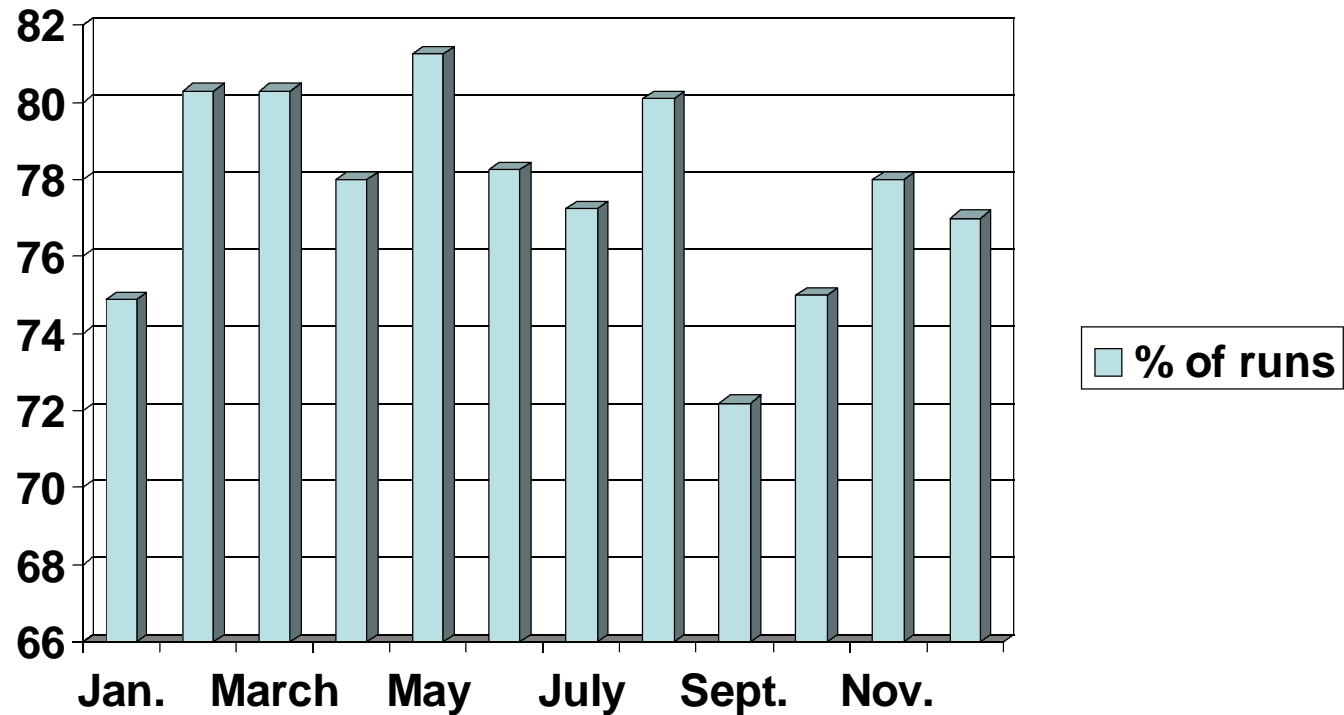
- How Many runs are in the city
- $5511 \times 70\% = 3858$
- $3858 \times 227.23 = \$876,654.00$
- $\$876,654.00 + \$1,500.00 = \$878,154.00$
- $\$1,411,182.00 - \$878,154.00 =$
- \$533,028 Total Cost
- $\$813,553 - \$533,028 =$
- \$280,525.00 total savings

Fire Based EMS



Fire Based EMS

- 2011 EMS runs by Month
- 77.92%



Fire Based EMS

- $5511 \times 78\% = 4300$ total runs in city
- $4300 \times 227.23 = \$977,089$
- $\$1,411,182.00 - \$977,089.00 =$
- $\$434,093$
- $\$813,553 - \$434,093 =$
- $\$379,460.00$ total savings

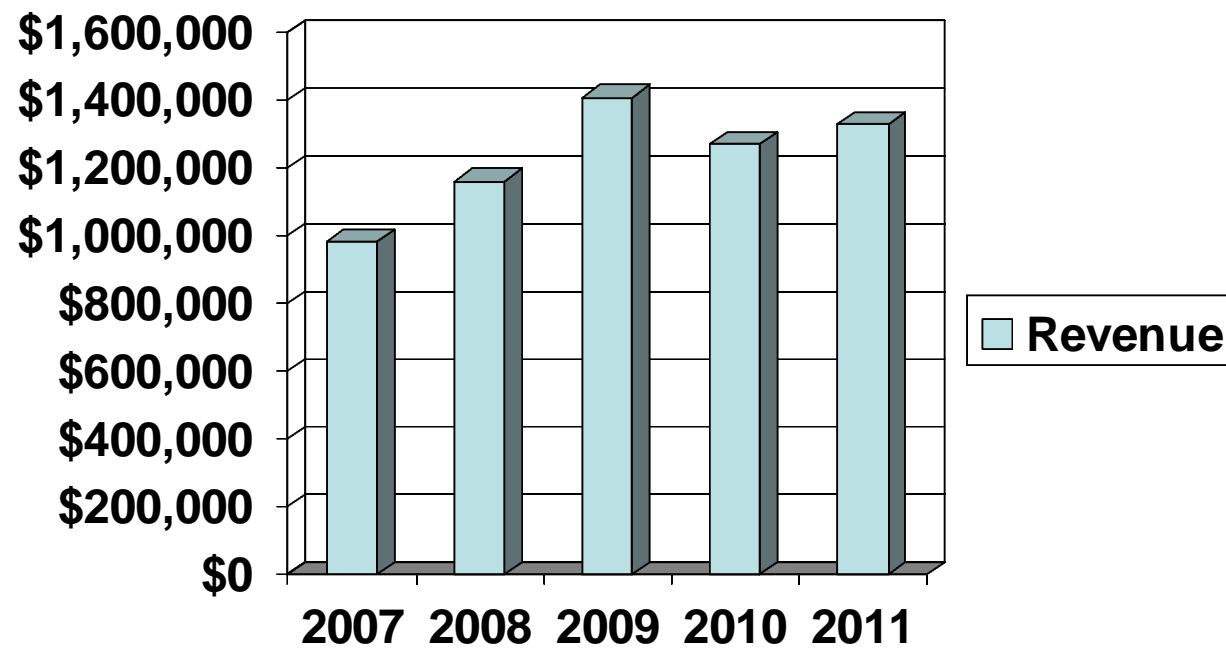
Fire Based EMS

- $\$665,004 \times 2 = \$1,330,008.00$
- $\$1,330,008 / 5511 = \241.33
- $\$241.33 \times 4300 = \$1,037,719.00$
- $\$1,411,182.00 - \$1,037,719.00 =$
- $\$373,463$
- $\$813,553 - \$373,463 =$
- $\$440,090.00$ total savings

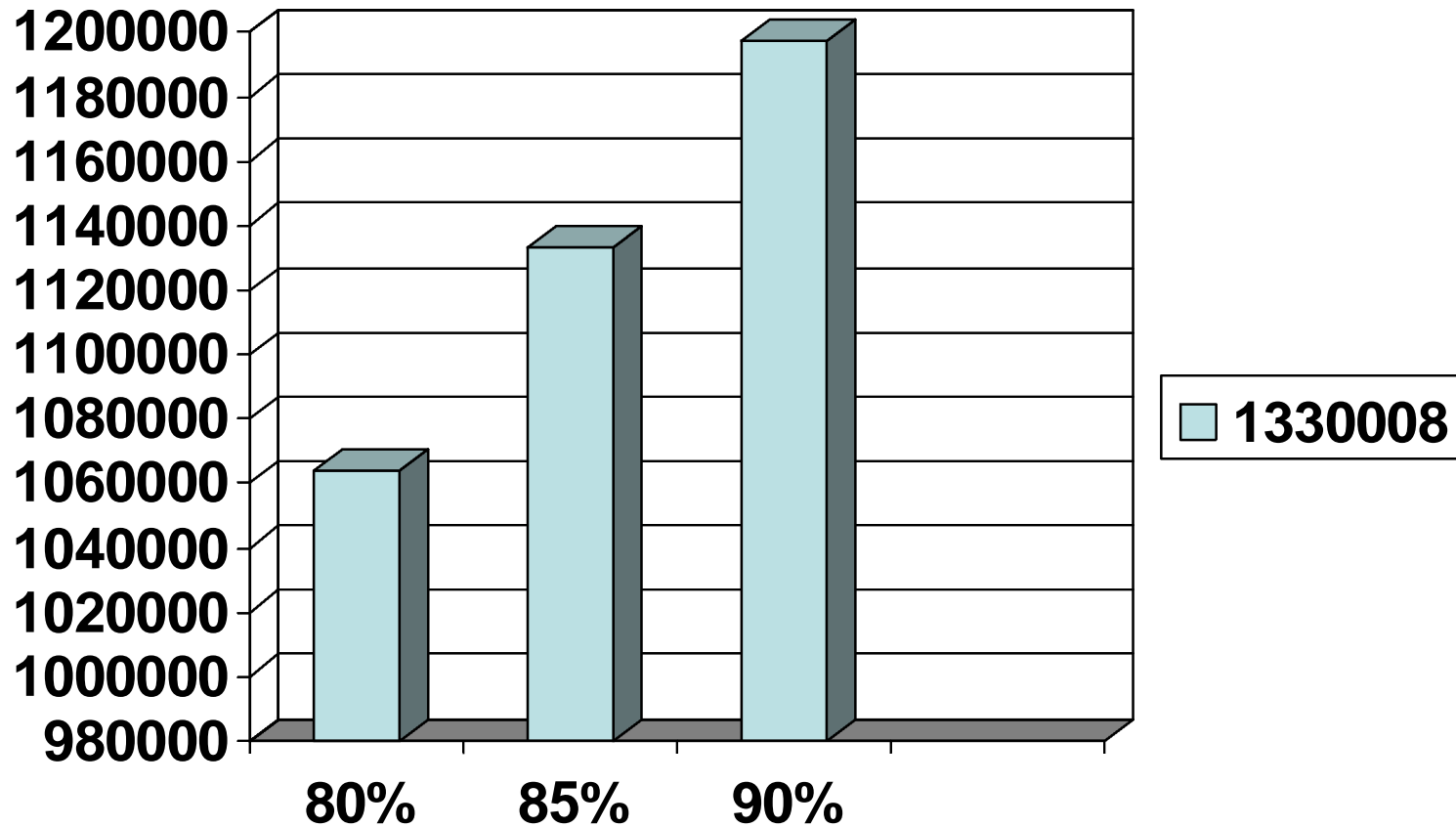
Fire Based EMS

- Revenue
- 2011 - \$1,330,008.00
- 2010 - \$1,269,672.00
- 2009 - \$1,407,484.00
- 2008 - \$1,162,178.00
- 2007 - \$ 982,606.00

Fire Based EMS



Fire Based EMS



Fire Based EMS

Questions?